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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/992,712

11/19/2001

Trung V. Le

10301US01

5875

7590

10/09/2003

Attention: Eric Levinson  
Imation Corp.  
Legal Affairs  
P.O. Box 64898  
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EXAMINER

BUI, HUNG S

ART UNIT

PAPER NUMBER

2841

DATE MAILED: 10/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application N .

09/992,712

Applicant(s)

LE ET AL.

Examiner

Hung S Bui

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on RCE filed on 09/02/03.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 and 21-23 is/are pending in the application.
- 4a) Of the above claim(s) 15 and 21-23 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                             | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-2, 7-9, 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klatt et al. [US 6,097,605] in view of Saito et al. [US 6,402,529] (figure 12).

Regarding claim 1, Klatt et al. disclose an apparatus comprising a housing (5) defining a slot (6) to receive one of a plurality of types of removable memory cards (figure 3), wherein this slot includes a central region of at least a height and a width to receive an entire memory card selected from a set comprising at least four different types of memory cards and a plurality of electrically conductive contact area (24) arranged within the housing to provide electrical contact with the different types of memory cards (column 5, lines 54-57).

Klatt et al. disclose the instant claimed invention except for the slot having an outer region of first and second heights.

Saito et al. disclose a card connector (1) having a slot (8) with two different heights (figure 4).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the multi-height slot design of Saito et al. for the slot of Klatt et al., for the purpose of enabling additional types of memory card to be used.

Regarding claim 2, Klatt et al. in view of Saito et al. disclose at least a portion of each of the contact area being disposed within the central region of the slot (figure 12).

Regarding claims 7-9, Klatt et al. in view of Saito et al. disclose the instant claimed invention except for the particular type and dimensions of the memory card.

The particular type and dimensions of the memory card would have an obvious design consideration based on the specific cards intended to be used with the apparatus.

Regarding claims 11 and 13, Klatt et al. Saito et al. disclose the instant claimed invention except for the particular type of interface used with a card reader.

The particular type of interface used with a card reader would have an obvious design consideration based on the type of computer system for which the card reader is intended to be used.

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Klatt et al. in view of Saito et al., as applied to claim 1 above, and further in view of Schmidt et al. [US 5,901,049].

Regarding claim 3, Klatt et al. in view of Saito et al. disclose the instant claimed invention except for a bias mechanism coupled to the housing to bias a memory card toward the contact areas.

Schmidt et al. disclose a housing (19) having a bias mechanism (14) coupled to the housing to bias a memory card toward a contact areas (figure 5, column 3, lines 14-35).

It would have been obvious to a person having ordinary skill in the art at the time invention was made to use the bias mechanism of Schmidt et al. in the housing of Klatt et al. in view of Saito et al., for the purpose of biasing the memory card to the contact areas.

4. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klatt et al. in view of Saito et al., as applied to claim 1 above, and further in view of Saito et al. (figure 5).

Regarding claim 4, Klatt et al. in view of Saito et al. (figure 12) disclose the instant claimed invention except for a bias member coupled to the housing within a central region slot to bias the memory toward a first side of the central of the slot.

Saito et al. (figure 5) disclose a card connector having a card slot including biasing means (55, 56) to bias a card (31) toward a side of the slot.

It would have been obvious to a person having ordinary skill in the art at the time invention was made to use the horizontal biasing means of Saito et al. (figure 5) within

the central slot of Saito et al. (figure 12), for the purpose of accurately positioning the card within the central slot.

Regarding claim 5, Klatt et al. in view of Saito et al. (figure 12) disclose the instant claimed invention except for the biasing mechanism biasing the memory card to move the memory card a distance at least approximately 3.5 mm from a side of the central region of the slot.

The particular biasing distance provided by the biasing means of Saito et al. (figure 12) in view of Saito et al. (figure 5) would have been an obvious design consideration based on the particular type of card used.

5. Claims 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klatt et al. in view of Saito et al., as applied to claim 1 above, and further in view of Itou et al. [US 6,010,066].

Regarding claim 6, Klatt et al. in view of Saito et al. disclose the instant claimed invention except for an insertion stop within the central region of the slot to limit an insertion depth of a memory card of a predetermined width.

Itou et al. disclose a card connector (10) having a card slot (12) for receiving a memory card including a stop member (125) inserted therewithin (figure 4, column 6, lines 51-65).

It would have been obvious to a person having ordinary skill in the art at the time invention was made to use the stop member design of Itou et al. in Klatt et al. in view of Saito et al., for the purpose of correctly positioning the memory card within the slot.

Regarding claim 14, Klatt et al. in view of Saito et al. disclose the instant claimed invention except for a plurality of contact areas corresponding to a plurality of types of memory cards and the particular type of memory card.

Itou et al. disclose a plurality of contact areas (16, 17 and 18) corresponding to a plurality of different types of memory cards (figure 3).

It would have been obvious to a person having ordinary skill in the art at the time invention was made to use the contact design of Itou et al. in Klatt et al. in view of Saito et al., for the purpose of providing a plurality of contact areas to receive different types of memory cards.

The particular type of memory card would have an obvious design consideration based on the specific card intended to be used with the apparatus.

6. Claims 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klatt et al. in view of Saito et al., as applied to claim 1 above, and further in view of Seeley et al. [US 6,132,223].

Regarding claims 10 and 12, Klatt et al. in view of Saito et al. disclose the instant claimed invention except for an electrically conductive interface for coupling to a memory card reader and circuitry for converting signal receive from the contact area.

Seeley et al. disclose an interface (20) for connecting a card reader with a computer (figure 2).

It would have been obvious to a person having ordinary skill in the art at the time invention was made to include the interface of Seeley et al. with Klatt et al. in view of Saito et al., for the purpose of enabling connection to a computer.

### ***Response to Arguments***

7. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.

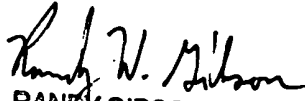
### ***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung S Bui whose telephone number is (703) 305-8024. The examiner can normally be reached on Monday-Friday 8:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David S Martin can be reached on (703) 308-3121. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-5115.

10/6/03  
HB

  
RANDY GIBSON  
PRIMARY EXAMINER